

#14



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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/560,494A

DATE: 03/19/2002

TIME: 14:04:40

Input Set : A:\102286-413.txt

Output Set: N:\CRF3\03192002\I560494A.raw

3 <110> APPLICANT: Jakobsen, Brent Karsten  
 4 Gao, George Fu  
 5 Gerth, Ulrich Conrad  
 6 Sewell, Andrew Kelvin  
 8 <120> TITLE OF INVENTION: CD8 AS AN INHIBITOR OF THE CELLULAR IMMUNE SYSTEM  
 10 <130> FILE REFERENCE: 102286.413  
 12 <140> CURRENT APPLICATION NUMBER: 09/560,494A  
 13 <141> CURRENT FILING DATE: 2000-04-28  
 15 <150> PRIOR APPLICATION NUMBER: PCT/GB98/03235  
 16 <151> PRIOR FILING DATE: 1998-10-28  
 18 <150> PRIOR APPLICATION NUMBER: GB 9722779.7  
 19 <151> PRIOR FILING DATE: 1997-10-28  
 21 <160> NUMBER OF SEQ ID NOS: 26  
 23 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 25 <210> SEQ ID NO: 1  
 26 <211> LENGTH: 48  
 27 <212> TYPE: DNA  
 28 <213> ORGANISM: Artificial Sequence  
 30 <220> FEATURE:  
 31 <223> OTHER INFORMATION: Synthetic DNA primer  
 33 <400> SEQUENCE: 1  
 34 gactgagtcg cggccgctgc caccatggcc ttaccagtga ccgccttg 48  
 36 <210> SEQ ID NO: 2  
 37 <211> LENGTH: 42  
 38 <212> TYPE: DNA  
 39 <213> ORGANISM: Artificial Sequence  
 41 <220> FEATURE:  
 42 <223> OTHER INFORMATION: Synthetic DNA primer  
 44 <400> SEQUENCE: 2  
 45 tattcgactg gatccttata cgtatctcgc cgaaaggctg gg 42  
 47 <210> SEQ ID NO: 3  
 48 <211> LENGTH: 42  
 49 <212> TYPE: DNA  
 50 <213> ORGANISM: Artificial Sequence  
 52 <220> FEATURE:  
 53 <223> OTHER INFORMATION: Synthetic DNA primer  
 55 <400> SEQUENCE: 3  
 56 ggaattccat atgagccagt tccgggtgtc gccgctggat cg 42  
 58 <210> SEQ ID NO: 4  
 59 <211> LENGTH: 54  
 60 <212> TYPE: DNA  
 61 <213> ORGANISM: Artificial Sequence  
 63 <220> FEATURE:

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64 <223> OTHER INFORMATION: Synthetic DNA primer  
66 <400> SEQUENCE: 4  
67 cgcggatccc tatgcgcccc ccgctggccg gctcgctctt gggcgaggg acag 54  
69 <210> SEQ ID NO: 5  
70 <211> LENGTH: 60  
71 <212> TYPE: DNA  
72 <213> ORGANISM: Artificial Sequence  
74 <220> FEATURE:  
75 <223> OTHER INFORMATION: Synthetic DNA primer  
77 <400> SEQUENCE: 5  
78 caccgcgaat tcggatccta agcgggtcta caagcttcgg gcttcgctgg caggaagacc 60  
81 <210> SEQ ID NO: 6  
82 <211> LENGTH: 59  
83 <212> TYPE: DNA  
84 <213> ORGANISM: Artificial Sequence  
86 <220> FEATURE:  
87 <223> OTHER INFORMATION: Synthetic DNA primer  
89 <400> SEQUENCE: 6  
90 caccgcgaat tcggatccta agcgggtcta caagcttctg gcgtcgtggg gggcttcgc 59  
92 <210> SEQ ID NO: 7  
93 <211> LENGTH: 60  
94 <212> TYPE: DNA  
95 <213> ORGANISM: Artificial Sequence  
97 <220> FEATURE:  
98 <223> OTHER INFORMATION: Synthetic DNA primer  
100 <400> SEQUENCE: 7  
101 caccgcgaat tcggatccta agcgggtcta caagcttcgg gcttcgctgg caggaagacc 60  
104 <210> SEQ ID NO: 8  
105 <211> LENGTH: 42  
106 <212> TYPE: DNA  
107 <213> ORGANISM: Artificial Sequence  
109 <220> FEATURE:  
110 <223> OTHER INFORMATION: Synthetic DNA primer  
112 <400> SEQUENCE: 8  
113 gtggcaagct tggatcctat ggcgtcgtgg tgggcttcgc tg 42  
115 <210> SEQ ID NO: 9  
116 <211> LENGTH: 42  
117 <212> TYPE: DNA  
118 <213> ORGANISM: Artificial Sequence  
120 <220> FEATURE:  
121 <223> OTHER INFORMATION: Synthetic DNA primer  
123 <400> SEQUENCE: 9  
124 ggaattccat atgagtcaat ttcgtgtatc accgctggat cg 42  
126 <210> SEQ ID NO: 10  
127 <211> LENGTH: 35  
128 <212> TYPE: DNA  
129 <213> ORGANISM: Artificial Sequence  
131 <220> FEATURE:  
132 <223> OTHER INFORMATION: Synthetic DNA primer

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134 <400> SEQUENCE: 10
135 acatacccat gggctctcac tccatgaggt atttc 35
137 <210> SEQ ID NO: 11
138 <211> LENGTH: 43
139 <212> TYPE: DNA
140 <213> ORGANISM: Artificial Sequence
142 <220> FEATURE:
143 <223> OTHER INFORMATION: Synthetic DNA primer
145 <400> SEQUENCE: 11
146 acatacaagc ttacggctcc catcttaagg tgaggggctt ggg 43
148 <210> SEQ ID NO: 12
149 <211> LENGTH: 9
150 <212> TYPE: PRT
151 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: HLA-A2 Pol-restricted CTL line specific peptide
156 <400> SEQUENCE: 12
157 Ile Leu Lys Glu Pro Val His Gly Val
158 1 5
161 <210> SEQ ID NO: 13
162 <211> LENGTH: 9
163 <212> TYPE: PRT
164 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: HLA-A2 Pol-restricted CTL line specific peptide
169 <400> SEQUENCE: 13
170 Ser Leu Tyr Asn Thr Val Ala Thr Leu
171 1 5
174 <210> SEQ ID NO: 14
175 <211> LENGTH: 9
176 <212> TYPE: PRT
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: HLA-A2 Pol-restricted CTL line specific peptide
182 <400> SEQUENCE: 14
183 Val Ile Tyr Gln Tyr Met Asp Asp Leu
184 1 5
187 <210> SEQ ID NO: 15
188 <211> LENGTH: 42
189 <212> TYPE: DNA
190 <213> ORGANISM: Artificial Sequence
192 <220> FEATURE:
193 <223> OTHER INFORMATION: synthetic DNA primer
195 <400> SEQUENCE: 15
196 ctgtccaacc cgacgtcggg cagctcgtgg ctcttcacgc cg 42
198 <210> SEQ ID NO: 16
199 <211> LENGTH: 42
200 <212> TYPE: DNA
201 <213> ORGANISM: Artificial Sequence

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203 <220> FEATURE:
204 <223> OTHER INFORMATION: synthetic DNA primer
206 <400> SEQUENCE: 16
207 cggttggaag agccacgagc tgcccgacgt cgggttggac ag 42
209 <210> SEQ ID NO: 17
210 <211> LENGTH: 99
211 <212> TYPE: DNA
212 <213> ORGANISM: Artificial Sequence
214 <220> FEATURE:
215 <223> OTHER INFORMATION: synthetic DNA primer
217 <400> SEQUENCE: 17
218 gggggaagct taatgccatt cgattttctg agcttcaaaa atatcgttca gaccaccacc 60
219 ggatcctggc gtcgtggtgg gcttcgctgg caggaagac 99
221 <210> SEQ ID NO: 18
222 <211> LENGTH: 18
223 <212> TYPE: PRT
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: CD8 alpha polypeptide
229 <400> SEQUENCE: 18
230 Gly Ser Gly Gly Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile Glu
231 1 5 10 15
232 Trp His
236 <210> SEQ ID NO: 19
237 <211> LENGTH: 63
238 <212> TYPE: DNA
239 <213> ORGANISM: Artificial Sequence
241 <220> FEATURE:
242 <223> OTHER INFORMATION: synthetic DNA primer
244 <400> SEQUENCE: 19
245 gaggaggagc atatgaaacc acaagcacct gaactacgaa tctttccaaa gaaaatggac 60
246 gcc 63
248 <210> SEQ ID NO: 20
249 <211> LENGTH: 36
250 <212> TYPE: DNA
251 <213> ORGANISM: Artificial Sequence
253 <220> FEATURE:
254 <223> OTHER INFORMATION: synthetic DNA primer
256 <400> SEQUENCE: 20
257 ggggagggaa gcttacttgg tagtagtaga gttcac 36
259 <210> SEQ ID NO: 21
260 <211> LENGTH: 9
261 <212> TYPE: PRT
262 <213> ORGANISM: Artificial Sequence
264 <220> FEATURE:
265 <223> OTHER INFORMATION: HLA-A2-flu
267 <400> SEQUENCE: 21
268 Gly Ile Leu Gly Phe Val Phe Thr Leu
269 1 5

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272 <210> SEQ ID NO: 22
273 <211> LENGTH: 9
274 <212> TYPE: PRT
275 <213> ORGANISM: Artificial Sequence
277 <220> FEATURE:
278 <223> OTHER INFORMATION: peptide epitope
280 <400> SEQUENCE: 22
281 Lys Ala Val Tyr Asn Phe Ala Thr Cys
282 1 5
285 <210> SEQ ID NO: 23
286 <211> LENGTH: 366
287 <212> TYPE: DNA
288 <213> ORGANISM: Artificial Sequence
290 <220> FEATURE:
291 <223> OTHER INFORMATION: synthetic DNA construct encoding part of the
292 extracellular domain of human CD8 alpha
294 <221> NAME/KEY: CDS
295 <222> LOCATION: (1)...(366)
297 <400> SEQUENCE: 23
298 atg agt caa ttt cgt gta tca ccg ctg gat cgg acc tgg aac ctg ggc 48
299 Met Ser Gln Phe Arg Val Ser Pro Leu Asp Arg Thr Trp Asn Leu Gly
300 1 5 10 15
302 gag aca gtg gag ctg aag tgc cag gtg ctg tcc aac ccg acg tcg 96
303 Glu Thr Val Glu Leu Lys Cys Gln Val Leu Leu Ser Asn Pro Thr Ser
304 20 25 30
306 ggc tgc tcg tgg ctc ttc cag ccg cgc ggc gcc gcc gcc agt ccc acc 144
307 Gly Cys Ser Trp Leu Phe Gln Pro Arg Gly Ala Ala Ala Ser Pro Thr
308 35 40 45
310 ttc ctc cta tac ctc tcc caa aac aag ccc aag gcg gcc gag ggg ctg 192
311 Phe Leu Leu Tyr Leu Ser Gln Asn Lys Pro Lys Ala Ala Glu Gly Leu
312 50 55 60
314 gac acc cag cgg ttc tcg ggc aag agg ttg ggg gac acc ttc gtc ctc 240
315 Asp Thr Gln Arg Phe Ser Gly Lys Arg Leu Gly Asp Thr Phe Val Leu
316 65 70 75 80
318 acc ctg agc gac ttc cgc cga gag aac gag ggc tac tat ttc tgc tcg 288
319 Thr Leu Ser Asp Phe Arg Arg Glu Asn Glu Gly Tyr Tyr Phe Cys Ser
320 85 90 95
322 gcc ctg agc aac tcc atc atg tac ttc agc cac ttc gtg ccg gtc ttc 336
323 Ala Leu Ser Asn Ser Ile Met Tyr Phe Ser His Phe Val Pro Val Phe
324 100 105 110
326 ctg cca gcg aag ccc acc acg acg cca tag 366
327 Leu Pro Ala Lys Pro Thr Thr Thr Pro *
328 115 120
331 <210> SEQ ID NO: 24
332 <211> LENGTH: 121
333 <212> TYPE: PRT
334 <213> ORGANISM: Artificial Sequence
336 <220> FEATURE:
337 <223> OTHER INFORMATION: an amino acid construct encoding part of the

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/560,494A

DATE: 03/19/2002

TIME: 14:04:41

Input Set : A:\102286-413.txt

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